

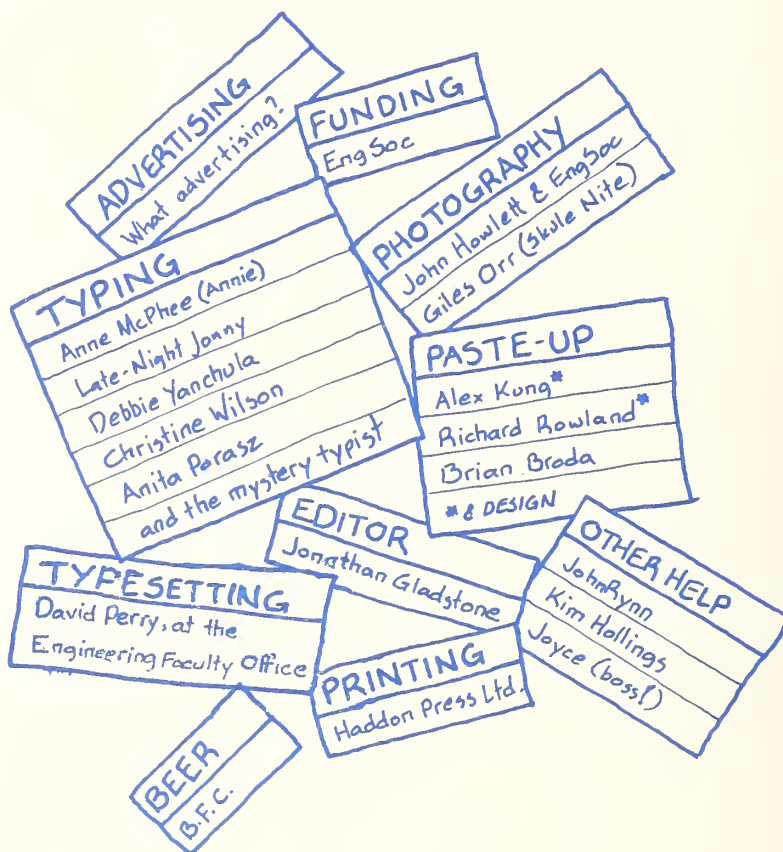


Skule™

# Handbook



1986-87



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## DEAN HEINKE'S MESSAGE

Welcome to all seasoned veterans and first-year students from the Dean, who is a freshman himself, having just started this role on July 1. All of you are now members-in-training of the ancient and honourable profession of engineering. Be proud of your profession. It will bring you rewards and responsibilities. Enjoy the rewards and take the responsibilities seriously during your student days and in your professional career.

I hope that you were able to obtain a good summer job and gain some valuable experience in the process. While the Faculty and its departments have always helped in a variety of ways to assist students in the search for employment, we have made plans, in conjunction with your Engineering Society, to do better in the future. Vice-Dean Charles has the specific responsibility to strengthen our ties with industry - one area of which is employment of our graduates and students. He will work closely with the University of Toronto Placement Centre and the Engineering Society on this task. You will hear more on this during the year.

The importance of technology and engineering for the well-being of our country has been emphasized strongly in recent months by initiatives of the provincial and federal governments. They have challenged the universities to collaborate with industry and government to

address a number of important issues facing the country. We take this challenge seriously and hope that other sectors will do likewise.

While the four years of study may appear to you at times to be never-ending, they are little enough to acquire the concepts, skills, and insights you will need in your professional career in Engineering. Many of you will find it necessary after graduation to return to formal studies to pursue graduate work in an area of special interest to you. All of you should continue your training through formal or informal programs of continuing education. The Faculty, in conjunction with the profession, intends to strengthen its offerings in this area over the next few years.

Those of you who are returning know that we work you hard. You would not want it any other way. Those of you who are just entering the Faculty may experience some repetition of high school studies. The con-



siderable variation in high school programs makes it necessary for us to do so. Don't be lulled into poor work habits by this early experience. I promise you it will get more interesting very quickly! If you experience difficulties, help us to relieve these by coming to us before they become serious. Associate Dean Will has the responsibility of dealing with first-year students. You will find him a sympathetic and experienced advisor, who will help you get over any difficulties of adjusting to university life. You have proven by your excellent performance in high school that you are worthy of studying at Canada's finest school of engineering. With hard work on your part, there is no reason why any of you should not graduate.

Having told you of the need for hard work, I wish to urge you not to neglect your participation in the full life that the University of Toronto has to offer. Your Engineering Society and the Departmental Clubs will organize many events that will be enjoyable and interesting. Come out and join your colleagues and your professors in these events. If you have the inclination and can afford the time, take an even more active part by accepting one of the many positions open to students in your societies and the various committees of the departments, the Faculty, and the University. With my best wishes for your success in 1986/87.

Gary W. Heinke  
Dean

## GEORGE WILL - ASSOCIATE DEAN

I would like to thank the Editor of the handbook for providing me with the opportunity to acquaint you with the office of the Associate Dean. The Associate Dean's position is a half-time appointment in the Faculty Office, with the remaining half taken up by those duties associated with a regular professorial appointment in one of the departments - Civil Engineering, in my case.

One of the major responsibilities of the Associate Dean is to counsel first-year students. Students who are experiencing difficulties or who have any questions should not hesitate come in to see me or my assistant, Anne-Marie Tynan, in

Room 157, Galbraith Building. I cannot emphasize this point too much. I have talked to many students in January or May, after they had difficulties with the exams, who undoubtedly could have benefitted from a chance to discuss their problems earlier in the year. It is very difficult to catch up after a bad start, and I would strongly suggest that any student who is experiencing persistent problems with the term tests should quickly arrange to see me.

I would also encourage you to take a few minutes to read Section I of your Calendar, which highlights the important term dates - be careful, the Faculty rigorously adheres to those dates shown as deadlines for dropping course, adding courses, withdrawing, transfer-

ring, etc. - and Section V, which covers the Academic Regulations governing your progress as a student.

A student wishing any treatment more favourable than that specified by the regulations must submit a Petition to the Registrar's Office (Galbraith 154). These petitions will be directed to the appropriate Faculty committee for consideration. For example, petitions concerning examination performance go to the Examination Committee, transfer petitions to the Advanced Standing Committee, course requirement petitions to the Undergraduate Studies Committee. The Associate Dean is a member of each of these committees and for First

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## THE PRESIDENT'S WELCOME

I am very pleased to welcome the class of 9T0 to U of T Engineering! You've made a good choice, since, as I am sure everyone will agree, this is the best engineering faculty around. This faculty, affectionately referred to as SKULE, is home to the oldest Engineering Society in Canada. The Engineering Society, also known as 'Eng Soc' or 'The Soc', represents the full-time undergraduate engineering students at U of T in all aspects of student life: social, athletic, academic, etc. You, as the newest undergraduates, are now members of the Eng Soc.

You now may be thinking "So what? What does all of this mean to me?" Well, as members you

inherit many old and some new traditions established by your predecessors. For example, SKULE is renowned for spearheading the annual Shinerama campaign, the Lady Godiva Memorial Band, the Brute Force Committee, the Toike Oike, and SKULE Nite, to name a few. There are many other things which we offer to the students, such as the Engineering Athletic Association, various events and publications, the Engineering Employment Liaison, and the SKULE Stage Band. The best part about all this is that not only can you participate, but you can also get involved and help organize and run everything that I mentioned above!

One tip for survival at university is to get involved in at least one extracurricular

activity. Another tip for survival is not to get involved in too many things. We don't want the class of 9T0 on the five year plan!

You get more out of involvement than just having some fun. The Engineering Society gives you the opportunity to meet people from all over the campus, learn

*2 cont'd. on p. 6*





## TO ALUMNI OF THE FUTURE

Any of you who are language scholars will be interested to know that the word "alumnus" (or "alumna") comes from the latin verb *alere*, meaning "to nourish." At the University of Toronto, you are considered to be alumni after you've been here for only a year.

Speaking of "nourishing," alumni of U. of T. Engineering invested about \$491,000 in your education in 1985. This money was spent mainly on new equipment for the Faculty, but also on the following:

- Orientation events
- Cannonball and Grad Ball
- Skule<sup>tm</sup> Nite
- Engineering Society publications
- 4th year Careers Seminar

- noon hour musical events
- prizes for the Telethoon
- LGMB and the Skule<sup>tm</sup> Band
- the EAA
- Ontario Engineering Design Competition
- Canadian Congress of Engineering Students
- club projects from various disciplines.

Our goal for '86 is \$500,000!

As well as all of this, the Engineering Alumni Association has an office in the Galbraith Building, right next door to the Dean. If you have questions or problems that no one else is able to answer, drop by room GB167 - the door is always open!

Remember - your attendance here automatically makes you eligible to become a full and continuing member of the

Engineering Alumni Association - for life! This membership is a right, but a responsibility as well. It offers privileges of which you will become aware, and opportunities for service both within the University and to the world. Since one good turn deserves another, I hope that as alumni you will remember all that the Faculty did for you after you leave us!

Sincerely,

Malcolm McGrath  
Assistant to the Dean  
Alumni Liaison

## THE INDUSTRIAL STRENGTH VELVET TONGUE - OR - YOU TOO CAN WIN \$100.

Every September, U. of T.'s Engineering students approach their alumni for funds. Every year, the alumni prove their generosity and appreciation. Last year, in response to an eight evenings' Phonathon, the alumni donated over \$53,000 to their old Skule!

The Phonathon is a competition - each club musters as many callers as it can, and over the course of the eight evenings they vie to see which group can generate the greatest number of pledge dollars. As prizes, the club with the largest combined total wins \$200, while the best student wins \$100.

For the past two years, the Industrial Engineering Club has raised the most money at our annual Phonathon, thereby winning the \$200 prize. Last year, an Industrial student won the \$100 prize for the individual who obtained the largest amount in pledges. What is their secret?

A large part of it is what's known as Skule<sup>tm</sup> Spirit. Both years, the Industrial Club had a full complement of callers and, spurred on by earlier successes, forged new records in pledges. (Chemical proved to be the exception to this rule - maybe they have some magic potion). It is interesting to project the total we would have reached if each club had brought out 25 callers - probably in the neighbourhood of \$93,000!

It is pretty apparent that the dollars raised per evening are a function of the number of callers

So let's go for it this year!

Here is what happened over eight evenings last year:

Club	#callers	amount pledged
Ind.	23	\$15,175
Civil	20	8,540
Chem.	8	6,883
Geo.	16	6,330
Mech.	17	6,010
Elect.	14	5,885
Eng.Sci.	9	2,645
MMS	7	1,590
	114	\$53,058

The callers will gather at 6:00 PM in the offices of Private Funding at Spadina and College, and partake of a light supper of pizza and beer. Promptly at

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# SHINERAMA

We're "shining", and we're proud of it! We're so proud of it, we even sing about it in 'The Engineers' Hymn'...

*Every year the engineers take to the street,*

*To show that Skulemen give a damn and aid CF's defeat.*

*With customary gusto and teamed with a nurse of course,*

*They raise the bucks by shining shoes with SPIRITED BRUTE FORCE!*



It's Shinerama we're talking about - the fundraising event that the whole university, and 54 other colleges and universities across Canada, participate in. Shinerama Day is the day when all of us at U. of T. and across the country take to the streets (with engineers leading the way!!) and shine shoes to show that we care.

We're shining for Cystic Fibrosis research. So what's CF? CF is a genetic lung and digestive disorder, and the largest killer of Canadian children, next to cancer. Every 1 in 20 of us is a carrier of the recessive CF gene. At present, there is no test to determine which of us are carriers - it could be you, or me, or the girl you sat next to in

Convocation Hall. If two carriers have a child, there is a 1 in 4 chance that that child will have CF. Such children live, on the average, to be 21 - just a few years older than you are now.

Our work makes the difference. Since U. of T. got involved in 1969, medical research has increased a CF child's life expectancy by 17 years: it used to be just 4 years old. We're getting closer and closer to a cure, and soon Shinerama campaigns will not be necessary ... but until then, let's "shine", and be proud of it!

Nadine Aweida  
Joe Paradi  
Shinerama Co-Chairmen



2 cont'd. from p. 4

communications and leadership skills, gain confidence, and a whole lot more. These are important facets to a well-rounded engineer.

Now that I've given you my 'get involved' sermon and you are keen to jump on the bandwagon, you can find us in SF B670. You are welcome to drop by anytime to see what is going on, use the 5-cent photocopiers or the 50-cent pop machine (take note of those last two!), or speak to any of us if you need information or help.

The Engineering Society has been at work all summer preparing for the year ahead. This year's administration will be concentrating on a few issues important to the students. The first is industry funding to the faculty. We have already begun to work with the new Dean to see how we can participate in encouraging industry to invest in our faculty. Second is employment, both summer and permanent: we will seek to improve employment opportunities for U of T engineers through the Employment Liason. The third issue is the profile of the Engineering Society both inside and outside our faculty. The Engineering Society continues to grow, and to help cope with this growth we are trying to make our office run more efficiently and be more accessible to students.

In closing I'd just like to throw out an old cliché: you only get out as much as you put in. So while you are here get involved. You

are now U of T Engineers, so be proud of it!

Kim Hollings  
President

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6:30, each cheerful, friendly (but persistent) group will begin calling alumni to convince them to match at least the students' own incidental fees of \$100.

Watch out for an announcement from your club chair-(wo)men and join in the fun. For those of you who will go into sales, it's invaluable training. All years are welcome. Come out and win \$200 for your club and \$100 for yourself (remember, too, that the time spent calling counts towards your practical experience hours) - you'll enjoy yourself while raising much-needed bucks for your Skule and your education.

2 cont'd from p. 84

Year students would normally be primarily responsible for leading any discussion regarding a student's petition. For this reason, it is a good idea for those First Year students who are considering petitioning to come in to see me to give me a chance to be completely familiar with the details of your petition. Of course, students from other years are welcome as well.

As the counselling of students beyond First Year is handled by the Departments, there is less opportunity for direct contact between the Associate Dean and an individual student. I am anxious, however that your academic experience in our Faculty be a good one and if there is any point you feel could benefit from some discussion please do not hesitate to drop in to see me.

George Will  
Associate Dean



## ENGINEERING SOCIETY

'N-Sock' - the University of Toronto Engineering Society - is Canada's oldest engineering organization. Founded in 1885 by then-Dean of SPS (now Skule) John Galbraith, EngSoc has evolved from a sort of junior professional R & D forum and debating club into today's hotbed of political, social, journalistic, and sports activities. Run by its elected executive, aided by their loyal boss, Joyce, EngSoc provides a smorgasbord for the interested student. (Yes, you too can get involved!)

Each upper-year class in Skule<sup>tm</sup> elects a class rep in March; the class reps in turn

elect committee and club chair(wo)men from their midst (frosh and 2nd-year reps will be elected in September). Altogether, executive and reps are EngSoc. Associated with the Society are its various committees and clubs (see articles) and the non-elected helpers: bnamembers, scribes, suds-pubbers, Cannon Guard, non-existent BFC, and general all-around help.

The EngSoc office (SF B670) is open Mon.-Thurs. 9:00 'til 4:00, Fri. 9:00 'til 12:00, and whenever else anyone's around (all night sometimes!). We couldn't do it without you, so come on around and give us a hand!

## ROUND THE SOC

The Engineering Society (a.k.a. the EngSoc) is home to those social few who would rather spend your student fees on services and social events than attend classes. Located in the discrete, but not so quiet, south-east corner of SF's basement, the EngSoc offices stand ready to be abused by any and all Engineering students. Inside, you will find mailboxes for department clubs, class reps, officers, and committee chairmen, two (2) photocopiers and a pop machine. The offices of the executive officers, Communications committee, Engineering Athletic Association and the Bnad are also all located here.

Finding anything in this mess we call the EngSoc can be a serious challenge, but our "too-amazing-for-words" secretary (Joyce!) always seems to know what is happening. However, if you need to know something and Joyce isn't available, there are always plenty of people hanging around who would be more than pleased to tell you where to go! If you remain frustrated in your search for information, try the bulletin board. What they lack in personality, they make up for in accuracy and pertinence.

The EngSoc just wouldn't be EngSoc without Frank and Earnest, our two resident 5-cent photocopiers. Come in and feed them some nickels and they'll gladly spew out some photocopied problem sets that you just didn't find time to

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complete.

Our president (Kim) is often found holding the fort in her executive-type office (the only one without a window). The V.P. Administration (John) and the V.P. Activities (Wayne) share a humble but functional office complete with refreshment fridge (owned by a certain non-existing committee that shall remain nameless). If you can find these guys under the mounds of empties stored in their office, You can ask them anything about administrative matters or Society events. The treasurer (Joon-Ho) and the secretary (Maria) (pronounced Mareeeeeah) can be found hanging around Joyce's office.

The dedicated bunch working on the communications committee are usually busy writing articles, doing layouts, developing pictures or finding phone

numbers of pizza places that deliver past 3:00am. EngCom is home to all of the EngSoc's publications.

Next door to that is the Engineering Athletic Association (EAA) whose strength on campus can be (sniff) detected as soon as you walk into the room where the uniforms are kept. Visit the president (Paul) if you are a Jock or Jockette, or want to become one.

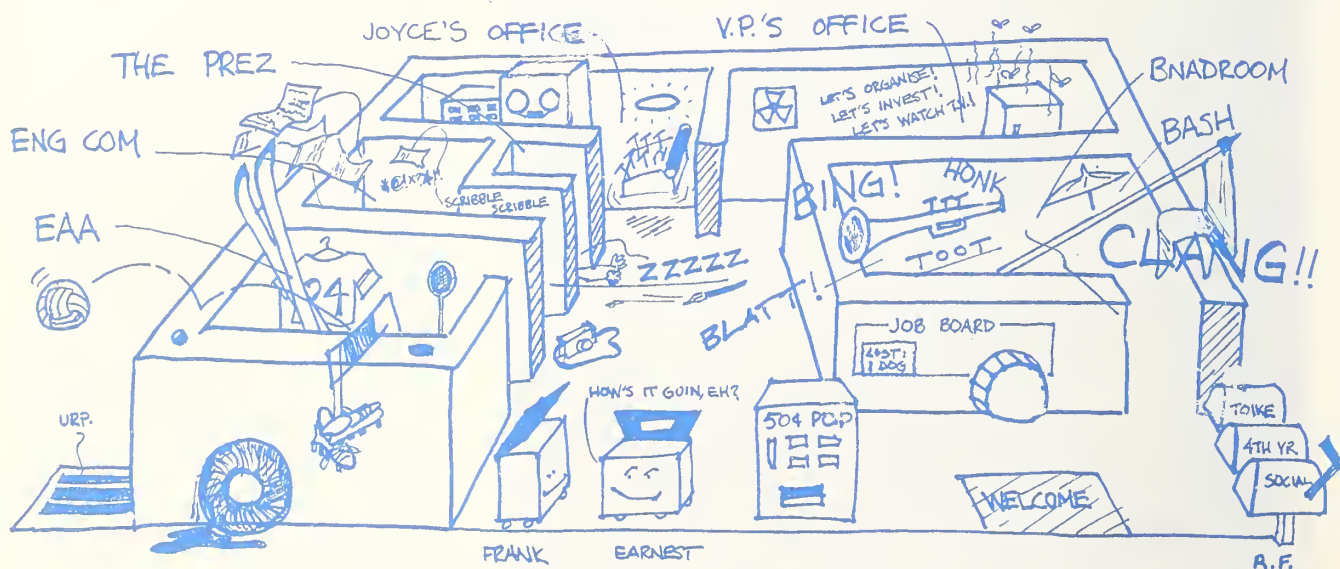
Last, but definitely not the cleanest, is the Bnad room, packed to the ceiling with instruments, hard hats, bnad sweaters and assorted "souvenirs" amassed from countless road trips. This is a good place to frequent for those musically inclined (and especially those who aren't who are interested in having a good time).

Right across the hall from the EngSoc. and the Cafeteria in SF B720 is the Engineering Stores. Pay June a visit here for

Skule<sup>tm</sup> supplies and other stuff like T-shirts and rugby sweaters. Also, the Flrosh can pick up most, if not all, of their first year textbooks and graphics equipment at the Stores.

As for the cafeteria, well, the coffee is definitely cafeteria coffee, but the food is definitely edible and in most cases, actually, quite tasty. Pop in here for a reasonably priced lunch or snack on those days when you run out of groceries ( probably every day ) or when mom doesn't come through with your smurf lunch bag.

If you find it hard to believe that so much can be going on in such a tiny corner of the Sandford Fleming building (or even if you don't!) come down and check it out for yourself. Whether it's fries, supplies or surprises that you're looking for, this is the place to find them!





## COURSE CLUBS

Each discipline (course) at Skule - Chem., Mech., MMS, Ind., Elec., Geo., Civil, and even Eng.Sci. - has a course club devoted to the interests of its students. These clubs organize smokers (staff-student liaison meetings; very serious affairs, usually accompanied by the inevitable beer and pizza), maintain clubrooms, run intramural sports events and field-trips, and generally provide a home for their departments' (wayward?) students.

The clubrooms are great places to relax, eat lunch, meet

friends, listen to tunes, and maybe even try to study! Their locations follow, along with the names of the chair(wo)men of each. Seek them out - they'll welcome the Class of 9T0!

Electrical: Cameron Grant;  
GB422

Civil: Anita Porasz; GB422

Mechanical: John Drossis/  
Keith Thomas; MC201

Chemical: Nadine Aweida;  
WB238

MMS: Gord O'Neill; WB143

Industrial: Tom Kempainen;  
RB207

Engineering Science: Keir  
Buchan; GB149

Geological: Maija Stark;  
SF1007

## EMPLOYMENT

The number one concern of most Engineering students is the need to find suitable employment. EngSoc's Employment Committee is here to help satisfy that need. We provide a liaison between you, the Engineering student, and the campus Career Centre.

Our function in recent years has been primarily to advertise job opportunities to students. Last year, however, our role changed. With money levied from your Faculty tuition, we have become heavily involved in the implementation of new career services for U. of T. Engineers. This increased activity brings with it the need for more good people. We need **you**. If you've got innovative ideas and you're willing to help, come see us - we'll talk!

Rob Cumming  
Employment Chairman

interests as they have a committee which deals with administrative issues and also a committee which looks into issues which are outside the university.

So...don't be a bunch of wimps and ignore SAC's existence because you'll be the one who is missing out on some of the best times you'll have at U of T!

Keren Morehead  
( SAC Director )

## SAC

Students' Administrative Council ( A.K.A. S. A. C.)

Definition: A group of about sixty people from all over U of T who try really hard to get everyone together to have an awesome time ( even Artsies !)

This year the Faculty of Applied Science ( Hey, that's us! ) has five representatives on SAC (called SAC directors) who will do their best to keep an eye out for engineering and also act as a liason between SAC and all the cool dudes/dudettes in engineering. SAC directors have the job of informing everyone of all the great events SAC is putting on this year and continously bugging everyone to come out and have a great time!

In the past, people in engineering have tended to either go home because they have too

much work to do ( Boring! ) or only go out with their small group of friends. SAC, however, puts on events that give you a chance to meet new people from different professional faculties and Arts and Science ( contrary to popular belief, there are lots of cool artsies! ). For example, during orientation SAC organizes an event called Romaround for which you buy one ticket ( for a good price - of course! ) and see eight- count'em-eight great bands! And don't miss U of T Day (Homecumming) just because it's around midterm time. There will be a campus wide open house as well as a parade, Bar-B-Que, and a football Game, etc.

Besides the events SAC organizes, there are terrific trips- Ski days, a Florida trip, boat cruises, bar trips-and again, at graeat prices. Also, SAC serves ones political



## FACULTY COUNCIL

One of the great privileges that has been guaranteed to all undergraduate engineers is the chance to become involved in the way our faculty is run. The major decisions that take place concerning the undergraduate program, such things as admission standards, examination procedures, and scholarship awards, are all the responsibility of the various committees of the Engineering Faculty Council.

As a group, the student body has a large say in the decisions that are made in these committees. Student representation consists of one rep from each of the thirty-four undergraduate classes. These students, along with the Dean, Assistant Deans, department heads, and various professors, meet at regular intervals throughout the year to discuss those issues that are of greatest interest to the student body as well as to the faculty. Considering the number of student representatives, the student voice is very strong in the making of all decisions. That which is accomplished depends on the Council members and their various interests, and for this reason, what we are looking for is hard-working individuals

who are interested in the workings of our faculty.

Elections for first- and second-year members are held in September, while those for third and fourth year occur in March.

Faculty Council membership includes full voting rights in the Engineering Society, as well as automatic membership in the Academic Affairs Committee of EngSoc.

I hope to see you

## F!ROSH COMMITTEE

The Flosh Committee consists of a group of Flosh (you!) who get together to do such things as:

- arrange the Flosh Pub
- build the Flosh Chariot
- erect an 8-foot diameter weather balloon with a 30-foot banner inside Convocation Hall
- raid an artsie class with water guns
- pig out on brown pop (5% alc. by vol!) and pizza

The committee is allotted a small budget by EngSoc, but can usually 'find' other charitable organizations to donate to the cause. This committee is rather informal: led by a chair(woman) elected from among the first-year reps, it really consists of a group of people who get together to have fun, relax, and share good times while organizing good times for their classmates.

Get involved! Make the difference!

Maria Athanasoulas  
Flosh Chairwoman 8T9

involved in this very important area of academic involvement. If you have any questions, please drop a note in my mailbox (EFRC) in the EngSoc.

Pablo Iglesias  
Executive Faculty Council  
Representative

## COMMUNICATIONS

The Engineering Communications committee, known affectionately as the EngCom, is comprised of a small group of people looking for new ways to avoid Skulework. In addition to accomplishing this feat, they keep the students in touch with the events and other "goings on" in the faculty. EngCom is responsible for all the publications distributed by the Engineering Society -- namely the TOIKE OIKE, the CANNON, the BOOK OF SKULE, and of course, the HNADBOOK/CALENDAR.

EngCom is always in search of new ink, since experienced EngCom hacks tend to graduate from time to time. If you would like to put a publication together, whether it be the Toike or our Yearbook, or develop some skills in photography, layout or typesetting, we would like to hear from you! Venture into the Engineering Society offices, and merely leave your name around to see what's going on. Leave your mark while you're at Skule; come out and be a part of history!

Communications Chairman

## WOMEN IN ENGINEERING

The Woman's Committee was organized to acquaint the female contingent of this faculty with one another, and also to expose(?) female engineering students to successful woman in the engineering profession so that they could share their unique experiences in the field with the student element.

Thus, one of the main goals of this year's committee will be to provide women students with an opportunity to gain insight into the engineering field into which they will soon be entering. Another goal of this year's Women's Committee is to work with the High School Liason Com-



mittee in making girls at the high school level aware of engineering as a highly viable career option. We hope to organize several field trips to high schools in order to speak to high school girls about engineering as a possible profession.

Hey, folks, we are a social committee, too! We start the year off with the Annual Wine and Cheese Party, held in September. This event allows incoming female frosh to meet upperclasswomen, but also encourages social interaction amongst female students as well

as exchanging information concerning future events. The Annual Women's Dinner is held in January, and features plenty of food and wine as well as a guest speaker.

Remember, women, getting involved in activities is important! Gaining insight into the professional engineering field is a great way to get prepared for the real world. Any and all ideas concerning guests speakers is welcome; drop your ideas into the Committee box on the wall in the Eng Soc.

Have a Great Year!!!

Heidi Herget  
Helen Wojcinski  
Co-Chairmen 1986-87

## THE VICE-PRESIDENT'S COMMITTEE ON EXTERNAL AFFAIRS -OR- IS THERE REALLY SAPIENT LIFE OUTSIDE OF ENGINEERING?

This committee has been set up so that students in Engineering can have access to a wide range of activities outside of Engineering. This allows our faculty to become less isolated from the rest of the University - i.e. party with other faculties and colleges. The committee's tasks will include public relations, advertising and organizing.

Through these activities we can improve our image on campus, get in contact with new people, and have a great time in the process. What a bargain!

Events which are already in the planning stages are: a revival of the Gumby Party; participation in the United Way 5km run; promotion of the De-

partment of Athletics and Recreation's Spirit Challenge (supporting U. of T. sports teams); various challenge events with Nursing and Rehab Meds; and a possible road trip to the Blind Duck Pub on Erindale Campus.

Listen for the first meeting in early September so that you can

take advantage of this amazing offer.

Live Wrong and Prosper!  
Your Chairman  
(and V.P. Activities)  
Wayne McPhee

## FOURTH YEAR COMMITTEE

The fourth year committee is responsible for things like: running grad ball and the lottery (and perhaps a pub here and there), arranging for grad photos, the Iron Ring ceremony, contact with the Engineering Alumni, and choosing recipients for various awards. As you can see, there is quite a bit of work here, and anyone is welcome to join in and lend a hand. It's great experience, and (though you may not know it) this committee affects most of you. Do you frosh out there know that part of your orientation fee goes

directly into a grad ball fund?(The rest goes to help pay for Wayne McPhee's trip to Florida.)

So now you're all asking yourselves, "how do I join this amazing committee?" Well, just drop a note with your name and phone number in the FOURTH YEAR mailbox in the EngSoc., or see your club chairman (who is a member of this committee).

This means everyone, not just fourth years. Its fun! Its easy! We're nice people!

Daniela Duriavig  
Fourth Year Chairman



## LADY GODIVA MEMORIAL BNAD

L.G.M.B., otherwise known as the BNAD, is the liveliest, most spirited, and certainly the most cacophonous group of people on campus, if not the entire city or even province. They have fun. They sing, they dance, they "play" poor, defenseless musical instruments - some of them quite well! They drink beer, they party, they make lots of noise with nary a care for who's listening, but most of all, they have a really good time.

## SKULE<sup>TM</sup> NITE

Problem sets getting you down? Mid-terms coming up? Formals due? Forget your troubles and join Skule Nite - The Musical Comedy Revue!

Fun. Excitement. Fame. Glamour. All these can be yours by hopping on board the Skule Nite bandwagon.

Skule Nite is by far the most exciting and dynamic show produced on campus. A tradition since 1920, Skule Nite 8T7 will be presented March 4-7 at Hart

A world-famous institution, the BNAD has played such venues as the CN Tower, Roy Thompson Hall, the Eaton Centre, and the Scarborough RT opening (not to mention a variety of unprepared artsie classrooms...)

Who can join? Anyone, as long as their body temperature was recently within twenty degrees Celsius of normal. How to join? The best way is to attend the annual practice at Hart House Farm. Failing that, just collar your freindly neighbourhood BNAD Leedur (me) and tell me what kind of noise you make. You don't need an instrument, we

House Theatre.

We want YOU! Flrosh are most welcome to come out and lend their artistic flair to the show. Actors, musicians, stage crew, sound and lighting technicians, writers -- why, the list is endless -- all are needed. All you need to have is the ambition and the enthusiasm (Note: talent is not a mandatory requirement).

So, watch the skies and the CANNON for details regarding the November auditions, and our omnipresent Writers' Meetings, and how you too can join Skule Nite 8T7!!

If you have any questions please call the producer, Larry Breakwell, at 621-3029; the director, Jerome Madden, at 239-7480, or Joyce, the Eng Soc's right arm and secretary, at 978-2917.

Join Skule Nite 8T7!!

Larry Breakwell  
Producer

have plenty, or any noise will do.

We're looking forward to seeing (hearing?) you soon!

Tom Meadowcroft  
BNAD Leedur '86-'87

## SOCIAL COMMITTEE

Are you a social, outgoing person who wants to be involved? If so, think about the social committee. This committee is responsible for organizing all the engineering pubs and social events of the year, including Roamaround (the campus-wide pub crawl) and Cannonball (the annual semi-formal dinner-dance), as well as several pubs (with a certain je-ne-sais-quoi) throughout the year.

We've been brainstorming this summer to find some new and innovative activities. On Oct. 10, a road trip has been organized to venture out to the wilds of Kitchener for Octoberfest. Tickets will be \$10., including the bus trip and pub admission. Ein Prosit! We also hope to experiment with a step in a different direction this year - culture! A trip to the TSO is being planned, and we are exploring the possibility of attending a ballet.

These are a few of our planned ideas for the year ahead. If you'd like to help organize the events mentioned, or have any other ideas you would like to see carried out - drop your name in the Social Committee mailslot in EngSoc. This year looks like an interesting one. See you there!!!

Social Committee Chairman



gyleserr



## BLUE & GOLD

Okay frosh, its time for your first quiz. It will only have one question:

1. Engineering at the University of Toronto consists solely of lectures, labs, tutorials, problem sets, quizzes, exams, midterms ... ad nauseum.

TRUE OR FALSE?

Those of you who answered true have probably already spent a few all-nighters in the stuffy Engineering Library and are doomed to a boring academic life. Those of you who answered false may give yourself a pat on the back- and a beer in the hand!

Skule life consists of considerably more than academic

study. In fact, the U of T engineers have a reputation as the most spirited group on the whole campus.

The Blue and Gold Committee's only concern is fun and games. The committee organizes Homecoming and Godiva Week, and oversees other Skule activities, such as the LGMB and the Mighty Skule Cannon.

Homecoming is held in the fall; it is a time to build a float. The Engineers are famous (infamous?) for building imaginative and interesting homecoming floats, so we need all the high-spirited and creative people we can get to help build this year's version.

Godiva Week is a wild extravaganza held in the first full week of January. Some of the highlights of the week are: Go-

diva's Resurrection, Boat Races, winter baseball, movie night, Godiva's wake (pub) at night. There will also be a pub every day at Suds.

If you would like to help out in the planning (and subsequent execution) of these Skule activities, and in the continuation of the Engineers' world-renowned Skule spirit, you can get involved by leaving a note in the Blue and Gold Committee mailbox in the Engineering Society office.

P.S.: The Blue and Gold Committee is in no way affiliated with the BFC, which does not exist, never has existed, and never will exist.

Steve Kotsopoulos  
Blue and Gold Chairdude

## SKULE™ STAGE BAND

Remember those good times rehearsing and performing with your high school stage band? Thought they were all over?

Well, dust off the old instrument case and check out the Skule™ Stage Band.

The band has just completed its third year of existence, filled with good performances including the Koffler Student Center opening, a Christmas Concert in Convocation Hall, Cannonball and the Jazz Plus Series Concert at Hart House as well as our regular Atrium Concerts. This year promises to be no less exciting. Already we've been asked to play at the U. of T. Open House October 18th

and we look forward to lots of further performance opportunities during the rest of the term.

So what type of music does this band play?... Jazz, swing, latin, rock, fusion and everything in between. Although most of our charts are for the full band, a smaller combo is usually formed for some extra vocal rock-n-roll tunes.

Becoming a part of Skule Stage Band is easy. During the second week of September, auditions will be held for this year's band, and everyone is welcome! We will be auditioning saxes, trumpets, trombones, guitar, keyboards, bass and drums. Everyone will have a chance for any place in the band ... may the best man (or women) win!

Meeting for those interested in joining will be held on Tuesday September 9th at 12 noon and 1 pm in GB202. Auditions will follow on Wednesday 10th and Thursday 11th at 5pm. Come out to one of the meetings and auditions for a real class act!

For more information feel free to contact.

Steve Roberts 444-1939  
Judy Spunt 222-9792

Keep your eyes open for posters and notices. 1986-87 is going to be a big year for the Skule Stage Band. Don't miss out !!

Bill Piggott  
Co-Conductor, Skule Stage Band

# BFC

Deep below the vast oblivion of the university campus lies the secret headquarters of the legendary, wholly denied, non-existent BFC. Known to strike terror into the hearts of every being from the lowliest Artsie right on up to the highest amoeba, the BRUTE FORCE COMMITTEE is (allegedly) responsible for those unexplained, unexpected, unperiodic objets d'art around campus. Accusations of putting Mickey Mouse ears on the SAC dome, stealing Waterloo's RIDGID TOOL (twice!), giving the Forestry building a forest of its own, placing various banners in various places, and numerous SAC dome paintings (as

well as wall-paperings) are not entirely unheard-of.

Under the leadership of the infamous CHIEF and his ill-mannered assistant, the CHIEF'S ASS, various tyrants preside over their respective ministries: Nocturnal Events, Wealth and Hellfare, Piece, Ignorance, Originality, Boardom, and Communications.

As well as ensuring security at EngSoc. events (thank goodness there's safety in numbers), these ministers, with the aid of informants (one per class) and various members-at-large seek out any caper to glorify the Engineer (and to vilify the Artsie).

To see if you qualify as a member-at-large, take

the BFC quiz:

1) Which would you rather do:  
a/ study for a Linear Analysis test worth 20% of your term mark, or  
b/ put something creative somewhere forbidden sometime after midnight.

2) When it comes right down to it, are you:  
e/ boring, unimaginative, humourless and shunned by all (i.e. an artsie)? or  
f/ interesting, enterprising, jocular and envied by all (i.e. a Skule(wo)man)?

3) Under pressure can you:  
b/ recite the dates of birth, death and accomplishments of every major military leader since Gengis Khan, as well as write Beethoven's nine symphonies from memory? or  
c/ keep a straight face as you pretend the Fotomat roof you've made and are now carrying across campus at 5 a.m. is really just a stage prop being moved to storage if the mice (ie campus police) pull up?

If your answers were 1)b, 2)f, 3)c to the above questions, then you are prime material for the BRUTE FORCE COMMITTEE. Just leave your name and phone number with an informant in a blue hard hat, or in the BFC mail box in the EngSoc.

Da Chief





## ENGINEERING ATHLETICS

All jock activities at Skule are run by the E.A.A. This organization(?), the Engineering Athletic Association, is yours: you're automatically a member, and whether you like it or not, \$7.50 of your fees goes to pay for it. So. Take our advice, get to know what's going on, and use it to your advantage.

### Organization

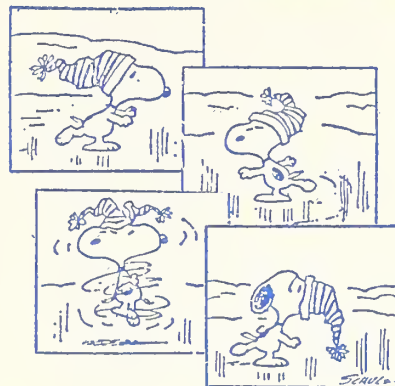
The E.A.A is run by a group of 24 students: one, the president, is elected during March EngSoc elections, and the rest are appointed by the previous year's E.A.A Executive, which consists of two Directors of Athletics, a Secretary-Treasurer, a Director of Publicity, a Director of Tournaments, and 18 (count 'em!) sports commissioners. Together, the Executive organizes and publicizes intramural and interfaculty sports events,

right from football and hockey down to co-ed recreational sports(!)

### Participation

Although Engineering has recently won both men's and women's interfaculty championships, we've slipped slightly in the past two years, so it's time for revenge. Our previous success was due to our high participation, which we again hope to achieve (...hint...hint...) Of course, you also get to meet other people, like upperclassmen (useful for their advice and old tests), peers, and even (gaspl) people from other faculties... sometimes even female people!

If you'd like to sign up for E.A.A activities, watch for posters announcing organizational meetings, and for sign-up lists - you'll find them on the E.A.A bulletin board in the EngSoc. The appropriate commissioner can answer any



questions - 'phone #s are also on the board.

### Awards

Aside from a handshake, a cold beer, and the pleasure of it, champion athletes are presented with awards at the annual S-Dance sometime in March. Everyone is welcome to watch our athletes receive beer steins, pen-and-pencil sets, and plaques for their efforts. Those with enough S-points also get awards.

What? What are S-points? You don't know? Oh. Okay, then. Every time a student participates at any level, (s)he receives a certain number of S-points. The better you do at your sport, the more S-points you get. If you accumulate 15 points, you get a chenille 'S' (your Skule letter); if you get 40 points, you get a 'Bronze S' (an oaken plaque engraved with the Faculty crest) in your graduating year. Details on S-points can be found on a list in the trophy case across from the cafeteria.

Remember: don't just stand on the side and cheer - get involved! That's where the satisfaction is.

Paul Hamel  
E.A.A President





## ACADEMIC SURVIVAL

So you're in your first year of University, and you're probably wondering about a lot of things ("What is life?"). Mainly, you'd like to know, "how can I survive at U of T?". Well, university's not as bad as you think it is. It's just... well... different. Anyway, after a few years of collective experience (doing it wrong first?) and so many, many updates, here are some ways to survive and get that degree and iron ring.

### Books and Equipment:

One of largest expenses in the first few weeks (of every term!) is for Books and Equipment. One of the best bits of advice we can give you is, "Don't rush out and buy all your books the first week". Find out first if your prof is going to assign problems from it or refer to it in lectures. Some texts, in the past, have languished unused on shelves; sometimes alternate texts are far superior, and others referred to quite a bit. These can prove helpful. Also, make use of Schaum's Outlines, which cost much less than the text and are often much more valuable for problem-oriented courses, i.e. Mechanics, Calculus, Algebra, Electricity, etc.

When you do come to buy your books, you will find them all, along with Schaum's, at the Engineering Stores, at the lowest possible prices (!).

**Lectures:** We hear that in high school they still ask the students to show up for most classes. However, as you've

probably heard, that's not the case with lectures here. We have yet to meet an Engineering prof who takes attendance at lectures, so you can skip a few and no one will be the wiser. This does not necessarily hold true for courses from other faculties, such as Arts and Science, where just putting your body in the classroom can be worth marks. But why skip a lecture? Well, some are clearly a waste of time (for example, the ones where the prof teaches straight out of the textbook and can't answer any questions), and at university your time is at a premium, so use it wisely.

However, that seemingly irrelevant material covered during those boring lectures may not seem so useless during the last weeks before Christmas, or that period around the end of April, or for that matter around mid-summer when you get your final results. Watch out: some profs have a habit of leaving half the material to the last few weeks, then basing the exam almost entirely on it; don't get caught!

If you do miss a lecture, you'll have to copy from someone. Make sure he or she takes good notes, because that will be your only record of the lecture, unless you're into tape recorders. Bad, unreadable or incomplete notes can become quite a handicap around exam time.

Regarding class participation, do it! The odds are very good that at least ten (or fifty) other people in the class have the same question. However, don't bother putting up your hand to correct the prof's

spelling (or pronunciation). By the way, if you do have a question and the prof can't (or won't) see your hand, say, "Question", loudly enough to be heard.

**Labs:** Speaking of skipping things, **don't skip labs!** If you miss one (they *do* take attendance) you will probably have to make it up (sometimes on a lunch hour) in order to get credit for the course. If you don't, you may see an "incomplete" in your results...("For the want of a nail... the kingdom was lost!").

*DO the lab prep!* The lab should then take care of itself—if the equipment doesn't self-destruct, that is.

The lab assistants can never seem to spend enough time telling you to keep a neat lab book. Take the hint: neatness counts. In addition to helping your lab mark, a neat lab book is easy to study from. Remember, there *is* lab stuff in the exam.

**Tutorials:** After your first tutorial, you may believe that these problem-solving periods are completely useless (or, you may not). Actually, a tutorial is a great place to get those pesky, God-damned, son-of-a-bitching problem sets out of the way. If you do them in the tutorial, you'll have the evening free! (to do other problem sets, of course).

As for T.A.'s, "what's a T.A.", you ask? Well, it stands for Tutorial Assistant, among other things. T.A.'s are usually fourth-year or graduate stu-

dents, and most of them know more about the subject than you do (most of the time, anyway). Ask them questions- they're there to help you!

**Problem Sets:** Most of the work here, outside of note-taking, studying, partying, and the occasional experiment, will involve solving a specified number of problems to be handed in at a set time, and marked.

The importance of these marks varies wildly, but generally the problem sets are teaching tools, not examinations. If you do nothing else while you are here, *do the problem sets*-- you'll probably pass with ease. If you haven't got them done on time, tell the demonstrator or prof, and ask for an extension-- then at least he won't be quite so angry with you, and you may salvage some marks!

Even though the problem sets are often your only method of self-assessment, virtually everyone has copied at least part of one (or worked in a group on a supposedly independent effort) at some time or another. Let us caution you, however, from falling into the habit of copying whole sets on many occasions: if you do, then when the exams (which count for a whole lot more) come, you are doomed! And you don't fool anybody during the term either.

**Professors:** Despite what you may think, profs do know more about the subject than you do. A whole lot. They have no vested interest in destroying any of you. However, they are human and subject to some very

human hangups.

One problem that they often have is that with no training in teaching, they often have trouble establishing communication. Many a tiny hassle develops into a major confrontation just because no student would go to the prof's office and explain that the method for handling a problem set was unworkable, or that his writing on the board was unreadable from the back of the second row. The best way to avoid even these efforts is to take part in the staff-student smokers, and to get to know the faculty, the staff, and the other students in your department. Remember-- profs are human too!

There may still be some situations which no amount of friendly communication will help. When this happens, *run*, don't walk, to the Faculty Office and ask to see the Chairman of First Year Studies. He has the power to effect change, and wants to help.

**Budgeting time:** Ah.. *this* is the key to survival at Skule<sup>tm</sup>. You have a lot of work to do in a finite amount of time-- here are some ways to get the most out of that time:

*Set priorities.* Work (passing, marks) comes first, *then* comes Play. Also, don't spend hours on a minuscule problem set when you have a 30% midterm the next day.

Don't get behind in your work. Having said that, we admit (once we stop laughing) that everyone does get behind sooner or later and must catch up. This is possible-- but just barely.

Do your work steadily. The Faculty says that you should do eighteen hours of work per week in addition to classes (good luck!). Whatever it takes, space the work out fairly evenly.

Please don't cram. It's not good for your or your marks. Neither is pulling an all-nighter on a computer program or something. You will be somewhat exhausted for the rest of the week, then have to pull another all-nighter to make up for the work you didn't feel like doing, then...

Use the course outlines given to you by your professors in the first week. If one does not appear to be forthcoming, ask for it. It helps you to set your priorities (marks-wise), and helps you pace yourself each week. Mark down the dates of tests and assignments on a calendar (your Skule<sup>tm</sup> Calendar is a good choice) so you won't forget to prepare for them.

When (unexpectedly) you feel an urge to do some homework, do it! That's when you can do your best. Some people are at their best in the mornings, others in the evenings, etc. If you figure out what your best working and playing times are, and use them to your advantage, you will be way ahead of the game.

By the way, if you have to commute, try to do some work on the bus or subway. Nobody will bother you, and it's wasted time otherwise.

As for the Christmas holidays and Study (Ski) Week, plan on getting nothing done during these periods, because that's exactly what will happen



anyway.

Finally, make friends. They are a good source of help on a problem set, among other things. You just *may* be able to survive on your own, but do you *really want to*?

All of these strategies may or may not work for you. Try them, find out what works best out of what we have mentioned, and tailor it to yourself. To work out your own solution, just remember this-- DO THE WORK, and develop an EFFECTIVE WORK HABIT.

**Exams:** These are virtually all made up of problems, *not* essays. This means it really is possible to get zero, or some other incredibly low mark. Often, you will leave an exam convinced that the proper course of action for you is to transfer to a basket-weaving course at some community college.

Ah, but if an exam consists of a lot of problem-type questions, wouldn't you do better if you did your problem sets beforehand? Hmmm.

Keep in mind: nearly all profs believe that the mark distribution should average somewhere around 65-70%; class marks are usually adjusted to fit, so what *really* matters is how badly you did in relation to the rest of the class. (i.e. if everyone else failed too, then your zero doesn't look nearly as bad.)

**Just in Case:** One often walks into an exam feeling terrible. If there is a good medical excuse for this, or even if it is just exam nerves, take

advantage of the provisions for petitioning the Examination Committee.

The way this is explained in the Engineering Calendar, you get the impression that extensive hospitalization or death (yours) might, just possibly, be acceptable petition subjects, sometimes. In reality, anything from a bad trip to a bad cold is legit, and worth the short walk over to Health services. It costs nothing and may be worth quite a

few marks. Do your petitioning at once, however, since they somehow suspect petitions which arrive simultaneously with the receipt of final marks.

So, there you are. Everything you need to know... All we can say now is, "good luck", and if in doubt, "ask", and "success occurs when preparation meets opportunity". Every problem set, midterm and (ugh) exam is an opportunity.

## MURPHY'S LAWS

**1. Murphy's Law-** If anything *can* go wrong, it *will*.

**2. Patrick's Theorem-** If the experiment works, you must be using the wrong equipment.

**3. Skinner's Constant-** That quantity which, when multiplied by, divided by, added to, or subtracted from the answer you got... gives you the right answer; also known as Finnegan's Finagling Factor.

**4. Horner's Five - Thumb Postulate-** Experience varies directly with equipment ruined.

**5. Flafle's Law of the Per-  
versity of Inanimate Ob-  
jects-** Any inanimate object, regardless of its composition or configuration, may be expected to perform at any time in a totally unexpected manner for reasons that are either entirely obscure or else completely mysterious.

**6. Allen's Axiom-** When all else fails, read the instructions.

**7. The Spare Parts Prin-  
ciple-** The accessibility, during recovery, of small parts which fall from the work bench varies directly with the size of

the part... and inversely with its importance to the work under-  
way.

**8. The Compensation Corol-  
lary-** The experiment may be considered a success if no more than 50 percent of the observed measurements must be dis-  
carded to obtain some corres-  
pondence with reality.

**9. Gumperson's Law-** The probability of a given event occurring is inversely propor-  
tional to its desirability.

**10. The Ordering Prin-  
ciple-** By definition, supplies necessary for yesterday's ex-  
periment must be ordered no  
later than tomorrow noon.

**11. The Ultimate Prin-  
ciple-** By definition, when you are investigating the unknown, you do *not* know what you will find.

**12. The Futility Factor -** No experiment is ever a complete failure - it can always serve as a bad example!





# ENGINEERING ENTRANCE EXAM

**Instructions:** Read all questions carefully. Answer all questions fully. Time limit: 4 hours. Begin immediately.

**Note:** In the tradition of good Skulemen, we the editurs have decided to use the same exam that's been used for the last  $n$  years. You may consult upperclassmen for answers. Good luck!

**Medicine:** You have been provided with a razor blade, a piece of gauze and a bottle of Scotch. Remove your appendix. Do not suture until your work has been inspected. You have fifteen minutes.

**History:** Describe the history of the papacy from its origin to the present day, concentrating especially, but not exclusively, on its social, political, economic, religious and philosophical impact on Europe, Asia, America and Africa. Be brief, concise and specific.

**Public Speaking:** Twenty-five hundred riot-crazed aborigines are storming the classroom. Calm them. You may use any ancient language except Latin or Greek.

**Biology:** Create life. Estimate the difference in subsequent human culture if this form of life had developed fifty thousand years earlier, with special attention to its probable effect on the English Parlia-



mentary system. Prove your thesis.

**Astronomy:** Define the universe. Give three examples.

**Sociology:** Estimate the sociological problems that would accompany the end of the world. Construct an experiment to test your theory.

**Psychology:** Based on a knowledge of their works, evaluate the emotional stability, degree of adjustment and repressed sexual frustration of each of the following: Alexander of Aphrodite; Ramses II; Gregory of Nica; Hammurabi. Support your evaluation with quotations from each man's work, making appropriate references. It is not necessary to translate.

**Philosophy:** Sketch the development of human thought and estimate its significance. Compare with the development of any other kind of thought.

**Music:** Write a piano concerto. Orchestrate it, and perform it with flute and drum.

You will find a piano under your seat.

**Physics:** Explain the nature of matter. Include in your answer an evaluation of the impact of the development of mathematics on science.

**Political Science:** There is a red telephone on the desk beside you. Start World War III. Report on any socio-political effects, if any.

**General Knowledge:** Describe in detail. Be objective and specific.

**Economics:** Develop a realistic plan for refinancing the national debt. Trace the possible effect of your plan in the following areas: Cubism; the Donatist controversy; the wave theory of light. Criticize your method from all points of view. Point out deficiencies in your point of view as demonstrated in your answer to the last question.

**Epistemology:** Take a position for or against truth. Prove the validity of your position.

**Engineering:** The disassembled parts of a high-powered rifle have been placed on your desk. You will also find the instruction manual, printed in Swahili. In ten minutes, a hungry Bengal tiger will be admitted to the room. Take whatever action you feel is appropriate. Be prepared to justify your decision. The APEO is watching!

# ENGINEERS' GLOSSARY

**ApSc** - abbr: Applied Science (you figure it out!).

**BFC** - a mythical organization, it does not exist, never did exist, and never will exist.

**Bnad**- see LGMB.

**Bunny** - Eng Com's resident herbivore (?).

**Cannon** - (1) symbol of Engineering might. a.k.a. THE MIGHTY SKULE CANNON. Guard it with your life. (2) skule<sup>tm</sup> newspaper. Read it!

**Cannonball** - annual Engineering semi-formal; find a fun person and come.

**caper** - refer to BFC (N.B.: this term has absolutely nothing to do with the BFC).

**death row** - Bloor St. between St. George and Avenue Rd. It's amazing what can be done to perfectly good food.

**dog** - domesticated four-legged animal, sometimes found with no nose. See SMELL.

**EngSoc** - continuous party, found in southeast corner of the basement of Sanford Fleming; pretends to do all sorts of useful things while just drinking beer. Run by Joyce.

**F!** - abbreviation for everybody's favourite four-letter word. adj. *Fling*



**F!rosh** - see F!

**Fort Book** - known to some as the Roberts Library. Big. Ugly. Concrete.

**Fort Jock** - a place to jock around. N.B.: To get a jock's attention (as if you'd want to!), just yell FUMBLE!

**Gumby** - He was once a little green slab of clay...

**Joe E. Skule** - Legendary Skuleman. First BFC chief. Slob.

**Joyce** - she who *really* runs this place; see EngSoc.

**June** -(jeez!) found behind the counter at the Stores .Smile!

**LGMB** - Lady Godiva Memorial Bnad. See Dog.

**make-up** - publications function including creation of articles, disposal of beer and similar acts of literary greatness.

**nurs** - syn. nurse.

**Pokey** - Gumby's pony pal.

**SAC** - Student's Administrative Council. Or something.

**Shinerama** - one of Skule's favourite charitable events.

**Skule** - (note metric spelling) Your home for the next four years (God and the faculty willing).

**Skule Nite** - a musical comedy revue. Try out, even if you *do* have some talent.

**smell** - how does he , do you ask? See TERRIBLE.

**smoker** - cheap beer, drooling classmates and profs, maybe cheap pizza.

**SPS** - abbr.: School of Practical Science. Us!

**steam tunnel** - for troglodyte f!rosh only. See also EXPULSION in faculty calendar.

**terrible** - you guessed it.

**The Stores** - the Engineering stores; the place to get stuff cheap.

**upperclassmen** - grown-up (?) f!rosh.





# CHARIOT RACE RULES?

## 1. Chariot

Each chariot will have:

(i) At least two accessible wheels attached to the chariot with no human contact whatsoever, on the ground throughout the race from start to finish (minimum wheel diameter is 152.4 mm).

(ii) No sharp protruding points or other objects dangerous to contestants i.e. cutting torches, barbed wire, electric shockers, guns, knives, bombs etc.

(iii) No maximum weight limit. Minimum weight of chariot is 13.6kg (without driver).

(iv) Human propulsion only (no gas motors etc.).

At the start of each race, each chariot will be pointed out to its competitors by the judges. (If you wonder why this rule exists, or think it's silly, you haven't seen enough chariot races).

## 2. Drivers

Each Driver must be:

(i) human (male or female); or

(ii) A member of Engineering Science with an official student number at the University of Toronto.

Driver must be over 18 (eighteen) years, or under 17 (seventeen) and accompanied by an adult. Driver must be contained in the chariot throughout the entire race from start to finish. Driver may not propel him/herself or chariot during

entire race from start to finish. Driver must be presented to judges before race by his or her club chairman or representative.

## 3. Pushers and Pullers

Only eight allowed. All must be human males and/or females.

## 4. Blockers

Offensive and defensive - no limit. All must be human males and/or females.

## 5. Offence and Defence

Rule 1(ii) applies to all contestants as well as chariots. It is hoped that contestants will abide by the intent of this rule, which is designed to prevent the loss of life, limbs, eyes, masculinity (or femininity) etc. *Corollary:* Anyone using axe handles, knuckle dusters, bike chains, etc. shall automatically bring about the disqualification of his or her chariot. Blockers must *not* carry dangerous objects such as materials of metal glass, wood or plastic. Biodegradable materials (two (2) years) such as eggs, tomatoes, watermelons are permissible. No aerosol cans, smoke bombs, flames etc. may be used by contestants or attached onto chariots. All contestants are reminded to behave in a sportsmanlike (or sportswomanlike) manner (like in NHL hockey games).

## 6. Course

On the main campus between the lines adjoining the markers.

## 7. The Race

The Race shall consist of one

complete running of the course in a counterclockwise direction.

## 8. The Time

The race shall commence at approximately 12:45 p.m. The race shall be started by the roar of the MIGHTY SKULE CANNON.

## 9. Winner

The first chariot crossing the finish line with at least two wheels attached to the chariot and touching the ground, and still capable of rotation, and a driver still breathing and as human as he or she was at the beginning of the race, will be declared the winner if it meets the following qualifications. To qualify to win, the chariot must:

(i) Complete the course as laid out by the judges.

(ii) Cross the finish line with at least two rotating wheels still attached to the chariot and touching the ground with no human contact or help.

(ii) Have a charioteer who has been contained in the chariot all the time it has been moving. A chariot without a charioteer must stop moving until it retrieves its charioteer. It may only retrieve the charioteer by moving backwards relative to course direction.

(iv) The charioteer who has been contained in the chariot at the sound of THE MIGHTY SKULE CANNON and who has been declared by the owners of the chariot to the judges before the race, must be the charioteer at all times during the race, and when crossing the finish line as set out by the judges.

(v) The charioteer may not

move more than 921mm (three feet) on the ground or in the air if he or she is not contained in the chariot during the race from start to finish. For the chariot to move any farther, he or she must be back into (his or her) original position in the chariot.

#### 10. The Prize

The winning team shall receive the venerable *J. P. Potts Memorial Trophy*, plus some other unknown prize.

#### 11. Inspection

The chariots shall assemble on Front Campus at 12:30 sharp for inspection by the judges. Nothing may be added to or subtracted from the chariots after the inspection.

#### 12. Eligibility

Each course may enter one chariot, which must be presented by the club chairman. For the purposes of this rule, the First Year Chairman shall be in charge of the First Year entry. (First Year may enter only one chariot). First year Engineering Science shall be considered to be First Year rather than Engineering Science for the purposes of this section.

#### 13. Disputes

The judges are hereby declared to be infallible. Consequently, all arguments shall be decided by the judges, whose decisions will be final. (see *The Rise and Fall of the Roman Umpire*).

#### 14. Waivers

All pullers, blockers, and charioteers must sign waivers

before the race. Anyone who refuses to sign and then races, does so at his/her own risk.

#### 15. Apparel

All entrants should wear protective headgear.

#### 16. Loans

All chariots stolen or otherwise removed shall be returned no later than 10:00 a.m. on the day of the race or the thieving team will be disqualified.

#### 17. Judges

The judges shall consist of the Blue and Gold Chairman and

two other persons chosen by the Blue and Gold Chairman. The judges must be fourth-year students in the Faculty of Applied Science and Engineering at the University of Toronto, and they must not be of the same course.

The judges can disqualify a chariot, even if it finishes the race first, if it has broken any of the above set rules. The winner may be declared anytime after the race, but before June, 1987. Once the winner is declared, no change can be made.

The rules may be changed 48 hours before the race by the Blue and Gold Chairman only.

## BOATRACE RULES

### I - OBJECT

To drink eight or ten consecutive containers of beer in minimum of elapsed time.

### II - TEAM

Each team shall have four or five members (depending on league), designated Lead Man, Second Drinker, Third Drinker, (Fourth Drinker), and Anchor Man.

### III - TEAM ATTIRE

Team dress is at the discretion of the team. However, novices to the sport are advised that sponge caps and bibs are handy items of apparel.

### IV - CONTAINER

The official boat racing container shall be the legislated LCBO 8 oz. draft glass. Should none be available, a suitable 8 oz. container may be substituted in its stead.

### IV - PROCEDURE

Thy team shall position itself in front of a table on which there are two containers of beer directly opposite each team member - ten containers in all.

The referee shall ask the team if its ready, and, when so, pronounce 1..2..3.. When three is uttered, the Lead Man will drink the contents of his first container, touch the empty container to the table, and then invert the container over his head. As soon as the Lead Man's container touches the table, the Second Drinker may pick up his first container, drink its contents, touch it to the table, and invert it over his head. The Third Drinker commences when the Second Drinker's container touches the table.

And so it goes, until the Fourth (Third) Drinker's container touches the table. The Anchor Man then drinks the contents of his first container, touches it to the table, raises his



second container and drinks its contents, then touches the second container to the table, and then inverts it over his head. When the Anchor Man's second container touches the table, the Fourth (Third) Drinker drinks the contents of his second container, and so it goes until the Lead Man touches his second container to the table.

The elapsed time for the race shall start with the utterance of "three" by the referee and end when the Lead Man's second container touches the table.

## VI - DISQUALIFICATIONS

A team shall be disqualified for any of the following:

(a) non-continuous drinking - if any team member cannot maintain flow of liquid from the container to mouth, the team will be disqualified.

(b) If any team member touches either his glasses (or other glasses) prior to the stipulated time (see PROCEDURE), the team shall be disqualified.

(c) Should any team member drink less than 90% of the contents of either of his containers, the team shall be disqualified.

Upon completion of the race, the referees meet to discuss any infractions, and, if none occur which will disqualify the team, then announce the official time of the race. The decision of the referees is final and may not be appealed.

**NOTE:** Gross and or indecent conduct on the part of the team members **shall not be tolerated.**



KNOW YOUR  
HARDHAT

It has been said that the brain of the newly arrived Flosh is one of the most beautiful things in the world. Pristine and unsullied by thought, the Flosh brain is ready to receive the vast quantity of knowledge to be inflicted on him or her in the next 4 (5,6,...,n+1) years.

Unfortunately, this most perfect instrument can easily fall victim to the violent physical and semi-intellectual attacks of non-engineers.

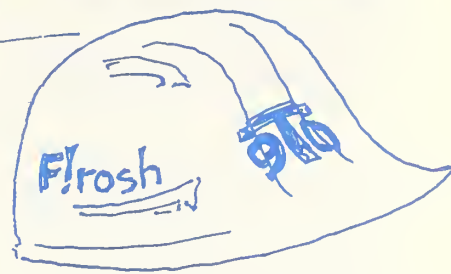
To this end, the powers that be (Eng Soc) provide each and every fee-paying Flosh with a water-resistant, shockproof, mystically powerful **hardhat**. A hardhat is the Skuleman's most valued possession, surpassing even his calculator or Metro-pass.

Within the hierarchy of Skule, there are many types of hardhat, all of them denoting some rank - or lack thereof!

**Beige:** Deeply concerned over the Skuleman's/woman's health and mental welfare, the beige hardhat is worn by those fun-loving souls, the Skule Pub managers.

**Black:** The most holy of all, the Black hat is worn only by those who serve THE MIGHTY SKULE CANNON. These hats are intended to protect the wearers from the numbing blast of their charge.

**Blue:** The mythical blue hardhat is issued to those who serve in the mythical, non-



existent and wholly denied BFC. Wearers of this headgarb are selected for their courage, their tenacity, and their willingness to be arrested by Mice.

**Green, Red, Dark Blue, and Brown:** The colours of the scribes of Skule. These scholars are charged with the faithful, knowledgeable and true recording of the history of the Engineering Society. Green is for the Toike Oike, Red serves the Cannon, Dark Blue is for the Book of Skule<sup>tm</sup> and Brown is for the Hnadbook.

**Orange:** the Orange hardhat symbolizes those elected few--the *Committee Chairmen*. These leaders are responsible for the various activities and events which characterize our beloved Skule<sup>tm</sup>.

**White:** A powerful and pure colour bestowed only upon those destined to lead the mighty machine of Skule.

**Yellow:** The colour worn by all other Skulemen. While not a badge of office, it does signify the Skuleman's superiority above all other life forms, ranging from the amoeba all the way down to the tiniest artsie.

## THE LONG AND GLORIOUS HISTORY OF THE MIGHTY SKULE™ CANNON

Undoubtedly, there comes a time in every Skule(wo)man's life when someone asks him about the famous Skule Cannon. Probably the Skule(wo)man wonders why there is a skule cannon. Here, then, is presented the complete history of the mighty Skule™ Cannon.

### I: The Reason For Being

Why is there a Cannon? The answer is quite simple. Engineers have always been associated with noise, so what better way than a cannon to symbolize Engineering? More importantly, the title 'Atiliator' has been given to the person responsible for the maintenance of defense works and weapons of war since the time of William the Conqueror. The title was synonymous with engineer.

The atiliator was responsible for the number of guns used, as well as their storage, mounting and PROTECTION. Therefore it is the duty of all engineers to protect the Cannon from the jealous hands of rival faculties, colleges and any other thieving, feeble-minded non-engineers.

### II : The Early Years

Although it was not until 1936 that the School of Practical Science (also called S.P.S., or Skule) had a cannon of its own, many cannons were honoured previously. In the 1923 *Transactions*, F.W. Thorold (S.P.S. '00) recalls how he and his fellow classmates stole the cannon from in front of

the Military Institute. "Meds sooh found out about this and after many battles, they captured it. That old cannon frequently passed from Meds to Skule and back again, and the last I remember of it was that it had been dropped between two of the Meds' buildings. Oh yes, we sure did shoot it off and broke lots of windows, too". On November 2, 1905, The Varsity reported that "during Thursday night, five large windows at the Skule were broken by shots from a small gun or revolver. It will cost \$100. in repairs."

In 1929, an Engineering caper resulted in firing one of the cannons in front of Hart House. This, however, demonstrated only 50% efficiency, as both cannons were supposed to blow.

In the early thirties, another smaller cannon would appear at Skule festivities and also roar, then mysteriously disappear. And in 1935, during an auction, a cannon was fired on the steps of the Old Red Schoolhouse with such force that the windows were again shattered. Once again it quickly disappeared.

In 1936, Skule unofficially approached a machinist working in the Civil Engineering shop to create the first 'Skule Cannon'. Recognizing the considerable risk he was taking, but also realizing the dangers of the students' experiments with explosives in a waterpipe, W. H. Kubbing decided to help. And so he fashioned a 10" barrel from a piece of axle stock and mounted in a cast-iron pillow block measuring 4" wide, 8" long and 1" deep, with a raised hump in

the centre through which a hole was bored to take the barrel. All of this was accomplished in the four hours preceding the School Dinner that evening.

The design of the Cannon was a tribute to engineering technology, for it was not only a devastating weapon, but it was equipped with built-in camouflage. It did not look at all like a cannon, thus deceiving any would be kidnappers.

This fearsome weapon was used until 1950, except for a few times between the years of 1941 and 1943 when a yacht gun was borrowed (really!) from a machinist in the basement of the old Engineering building.

Naturally, the unimpeachable appearance and worth of the Cannon was an irresistible temptation to anyone who gazed in its direction, but especially to feeble minded persons in other faculties. In 1941, UC stole it, but it was instantly returned. In 1944, UC managed to steal it again. With cries of war and plans for the immediate elimination of the nuisance at the north end of the Circle, but lacking evidence to prove the identity of the thieves, SPS undertook a restrained campaign to regain possession. This wound up as a series of ads in the *Artsman's Gazette* (sometimes called the Varsity, often called something else).

Of course, this campaign was a failure, as would be any appeal to an Artsman's honour. On Feb. 13, 1945, UC Lit announced that the Cannon would be returned at the annual Arts Ball. The T\*ike, in a fit of editorial passion,



called it a "dastardly plot... a black infraction of civil property rights." The Varg, unbiased as usual, said that it was "in keeping with Good Neighbour policy." In any case, the hiding place was finally discovered, and the Cannon was forcibly retrieved by a group of intrepid Skulemen. The Arts Ball, naturally, was a failure.

The Cannon returned to its job of banging at dinners, auctions, and little old ladies. Plans were made to have it sent to Japan to assist in the Allied effort, but came to nought.

As the '49 Chariot Races approached, in a spirit of pre-race heckling, the Cannon wandered about destroying everything in its path. When the first heat was called, an earth-shaking blast reminiscent of Hiroshima and Nagasaki devastated all ears. Then it happened: 1,077 Meds and Premeds, armed with scalpels, tear gas, thigh-bones, trained white mice, and a squadron of bomber pigeons attacked in a screaming, mindless mob! The battle raged back and forth, to and fro, up and down, side to side, until, realizing that they were hopelessly outnumbered, the meds sent for reinforcements. These and the bomber pigeons finally made their mark on the Cannon Guard, and the Cannon disappeared into the Meds building.

Negotiations went on for days as respective values of the Cannon and missing Meds Society President Bob Heatherington were calculated by a federally appointed mediator. After a few days of debate, the Cannon was

returned, marred by the inscription which read: Captured by Meds 5T2, 3 Feb. 1949."

On Christmas Day, 1949 there appeared on the doorstep of the Engineering Society a beautiful new weapon showing excellent workmanship. On it was engraved 'Skule Cannon'. It seemed that Santa had a close friend, a fine machinist who had been working for the Department of Civil Engineering for a long time and had created the first Cannon. In 1950, the Engineering Society honoured W.H. Kubbing with a scroll extolling his loyalty, courage and good conduct, and made him an honorary Member in Ye Ancient and Honourable Company of Skule Cannoneers, with the rank of Sergeant Artificer.

This new Cannon, dubbed the 'Mark II', was machined from cold rolled steel bar of diameter 2" (5.1 cm) and length approximately 11" (27.9 cm). The barrel was mounted on a wheeled carriage fabricated from heavy steel plate. The Mark II Cannon weighed 20 lbs. Later on, the wheels and barrel were chrome plated. Its first public appearance was at the Chariot Race of January 27, 1950.

The original Mark I Cannon "was retired to pasture in a retreat known only to loyal Skulemen," as recorded in the Varsity of October 6, 1950. But on October 29, 1952, The Varsity headline screamed "SKULE CANNON PRIZE FOR BLOOD CAMPAIGN". The 'Mark I' was mounted on a suitable base, and enscribed as follows: 'Presented to the Forestry Winners

of the interfaculty blood contest.' The Engineers had also promised that it would be presented annually if they did not win the contest that year. The following year, Forestry won again, followed by St. Michael's College, Nursing, and Forestry again. For the 1957-58 campaign the Engineers became wiser, and changed the rules. The winner would now be declared on a total donation basis, rather than the previous percentage basis. Skule<sup>tm</sup> easily won back its Cannon. In the fall of 1959, the Toike Oike reported that the "Mark I had been presented to Dean Emeritus C.R. Young."

Meanwhile, on November 1, 1951, a hastily mimeographed Toike Oike proclaimed an attempt to make off with Skule's favourite child, "the new 'Mark II' Cannon". A trio of students posing as journalism majors from Penn State had asked for an interview and a chance to see the Cannon the night before. They were quickly escorted to the door, which was securely bolted behind them. Later a car was found nearby revealing UWO (Western) stickers on the windshield. The car accidentally acquired two flat tires before another feeble attempt by the students to gain entrance to the Engineering Society.

Next, one fall night in 1958, artsmen broke into the Engineering Stores in an attempt to steal the Cannon. Believing that it was in a safe, they pushed the safe out a window and carried it away; however, their efforts were in vain, and only the leniency of Skule kept them from an extended vacation (at govern-

ment expense) in Kingston.

But where artsmen failed, Medsman succeeded by deceit, as in 1959 when the Meds once again made off with the precious tool. To help publicize the blood campaign, the Skule Cannon appeared at the Blood Donors' Clinic. It had been guaranteed safe conduct, so the Cannon was without its usual bodyguard and was attended by only two Skulemen. After a long battle, the Medsmen overpowered the Skulemen and captured the Cannon. After a round of kidnapping, Engineering invaded the Meds building, removed the cleaning staff, faculty and other debris, and boarded up the doors and windows. In the morning, the Meds saw the light and returned the Cannon.

In their kindheartedness, the Engineers gave the Medsmen a replica cannon, and they built a suitable trophy case for their prize. But in a masterful piece of Engineering subterfuge, this false cannon was removed from the case (without scratching the glass) and promptly destroyed.

Sadly, in 1959, the score of battles finally took its toll and the faithful Cannon had to be fitted with a new barrel. This new barrel was machined from a solid stainless steel bar, 12" (30.5 cm) long and 2-1/2" (6.4 cm) in diameter. The barrel was initialized by Cannoneer Bill Riggs, who also oversaw its construction.

In honour of the many battles on which the Cannon accompanied Skule, the 1950 Cannon (Mark II) was immortalized by placing it in the cornerstone of the new Galbraith building.

The new (Mark III) Cannon was formally fired for the first time on the front campus in 1959. It was next used in conjunction with the Lady Godiva Memorial Band, when the Engineers literally stopped the hoecoming show for ten minutes while a presentation was made to the director of the show, a former Skuleman.

In the same year, a group from the Brute Force Committee accompanied the Cannon on a complimentary visit to the Victoria College Scarlet and Gold Dance in Alumni Hall. The Middlehouse Four were rendering a tender ballad at the time the gun discharged, and they were stopped dead in the middle of a verse. The BFC then scattered leaflets proclaiming Skule Nite and the Cannon Ball. Later that same year, the Cannon appeared at the U.C. Junior Common Room to proclaim the At-Home, with more leaflets.

In 1963, when John Adam was cannoneer, the Cannon Guard was given uniforms for the first time, based on an idea by Dave Morrison. Thus, the red-helmeted Cannon Guard came into existence.

On September 23, 1964, the Cannon was fired in the Drill Hall by Cannoneer Doug MacDonald. A nurse from Toronto General Hospital was injured in the right arm by a piece of undisintegrated wadding from the cannon muzzle. She had been standing at least 25 feet from the Cannon; 10-15 feet was the recommended distance.

Further activities with the Cannon were banned at the dean's request, pending a series of tests

to be carried out by Professor MacElhinney of the Chemical Engineering Department, to determine a new safe loading and firing procedure. After receiving notice from the nurse's lawyers of their intent to file suit, all plans for testing were suspended indefinitely.

Late in October, permission was obtained to fire the Cannon in the Hart House quadrangle to be recorded for an LGMB record, with the stipulation that Professor MacElhinney be there to supervise. Soon a revised loading procedure was developed. Black powder, by virtue of its dependability and insensitivity to packing pressure, replaced smokeless powder.

Since no more was heard from the nurse's lawyers, the Dean lifted the embargo, and the Cannon was fired for the first time in the lower gallery of Hart House, at the Lady Godiva Memorial Bash.

### III: Cannongate '67

1967 was the year of Canada's Centennial, but more importantly, it was the year of the most famous steal of all. Capitalizing on a lapse in security, the dreadful Wretched Duo spirited away the Cannon, spilling nary a drop of blood in the process. These bold fiends could not possibly be anything but engineers, and grads at that, as exhibited by their recklessness and fearlessness. Their identity must be kept secret, for Joe E. Skule only knows what the world would do if it were to find out that Mike Chapelle was the dean's leader, assisted by Howie White. Accompanied by Chapelle, the



Cannon made its way to the British Isles, but six brave engineering grads took it upon themselves to restore the pride of Skule to its rightful owners. The tracked it down, all the way to U.C. in England. Don Munro (an ex-bandleader and EngSoc president) and Fraser Dunford stole into Chapelle's room and with a nary another drop of blood, Skule had its manhood back.

Then it was on to Coventry to pay homage to Godiva. The statue of the glorious lady was adorned with an engineering jacket and the engineers made merry, for they were overjoyed. Chapelle followed them to Coventry, but the Skulemen outnumbered him and he backed off after some unpleasantness.

The Cannon was taken to Wales and then back to Canada. The fact that an engineer had stolen the Cannon was very embarrassing, so the whole theft-and-recovery was hushed up. The Engineering Society had another Cannon built when they found out that the old one was gone, but the new Cannon (Mark IV) was announced to the world as having been built in honour of Canada's centennial. The carriage of the new Cannon was mahogany and was equipped with wheels. Both the barrel and the wheels were chrome-plated.

#### **IV: The Modern Era**

With a brand spanking new Cannon, Skulemen's spirits were given a much needed lift (le hic), but it was barely a year old when another attempt was made to snatch the Skule banger, this time by an Industrial Engineer.

He was unsuccessful in his attempt and spent the next few weeks as a guest of a Toronto hospital.

The '59 Cannon (Mark III) made a brief reappearance at the 6T9 Cannonball, where it was fired by John Adam (Cannoneer '63). The Mark III Cannon was then reported to have formed the basis of the annual Skule Cannon Award; however, this was more fiction to cover up the '67 Cannongate. This Cannon has since been presented to Paul Baker (7T5) in recognition of his outstanding service to the Engineering Society.

The year 1971 brought the first gangbang with the Ryerson engineers, to determine who had the better cannon. Needless to say, the Polytechs were sent scurrying back to Ry High with their feet in their mouths. Not only did Skule annihilate them in the contest, but the Skulemen stole their cannon and made off with the distributor wire from their bus.

With the Faculty's Centennial fast approaching, the Cannoneer decided that a new Cannon would be an ideal way to celebrate. In great secrecy, an emissary was sent down to Svart-alfa-heim (a kingdom below the earth where elves live) to commission Sindri (the creator of the mighty hammer of Thor) to machine the mightiest device ever imagined. With a solid brass barrel of maximum diameter 3" (7.6 cm) and length of 16-1/2" (41.9 cm), this zenith of perfection would easily strike fear into the heart of any mortal.

The first formal firing of this marvelous weapon was at the

1973 Centennial Ball, and on the third try it actually fired. Dean Ham fired the 1967 (Mark IV) Cannon for the last time and was then presented with it in honour of his retirement from Dean-ship.

The 1973 Cannon (Mark V) has enjoyed a short period of relative tranquility after its creation, except at a frosh dance, when it was stolen (by the LGMB) to scare the Cannoneer (who had carelessly left it unguarded in the band room). In 1976, though, Robert Gilmour (the Cannoneer) was found guilty of defacing the Cannon. The deed was discovered when John Vanneste, a former Cannoneer, was called to fire the Cannon, since Gilmour had refused to do so at his own Grad Ball. The Cannon was found to be badly corroded and in need of cleaning, and when the barrel was removed from the base, Gilmour's name was found chiseled into the bottom.

The Engineering Society passed a motion of censure against Gilmour, and the entire episode was exposed in the Toike Oike (March 26, 1976). Furthermore, at Vanneste's suggestion, the Cannon Guard were to wear black hard hats for a year to show the engineers' displeasure. The Cannon Guard has continued to wear black ever since.

In 1982, the glorious Skule banger was called upon once again to prove itself. The first round of yet another gangbang was held during Godiva Week on Front Campus. This time, contenders from Ryerson, Devonshire House, and some forgotten

fraternity were trying to wrest the glory from Skule Cannon. The impartial judges, armed with the latest in decibel meters, quickly banished Devonshire and the fraternity from the field. Due to faulty calibration, both Ryerson and Skule were off the scale.

A second round was then held, this time on Ryerson's home turf. Using heavy duty equipment and special shielding, the outcome was certain. Skule had once again triumphed. For the record, the Mighty Skule Cannon was measured at a level of 113 decibels, from 200 yards distance.

In time, the years took their toll on the Cannon Mark V, and in 1985 it was decided that a new Cannon would be commissioned for the Engineering Society's Centennial. The design of the new Cannon (Mark VI) was undertaken by Greg Forbes (Atiliator 1982), with the help of four other atiliators. The Cannon, with its bulbous muzzle, was designed after a naval piece. In order to reduce injuries to the guard, the diameter of the touch-hole was reduced. The finished Cannon, with a bore depth of 13-3/4" (34.9 cm) and diameter of 3/4" (1.9 cm), was the most powerful weapon to date. At its test firing, the 8" spikes used to secure it were ripped out of the ground!

At the 1985 Grad Ball held at the Royal York Hotel, the 1972 (Mark V) Cannon was presented to Professor Emeritus L.E. Jones in recognition of his years of service to both the Engineering Society and the Faculty. That

evening, the new Cannon, in keeping with the tradition started by its predecessor, fired on its third try. The force of the delayed blast rolled up a large section of carpeting. With sound and fury, the new Cannon had announced its arrival!

#### **Addendum: Care of the Cannon**

When Skule's first Cannon was created, a Cannoneer was appointed (in keeping with age-old tradition). The Cannoneer would be responsible for selecting the

placed asbestos as the wadding material.

In 1959, an artificer was appointed by the Engineering Society to inspect the Cannon, issue powder and in general look after the material needs of the Cannon; however, he was quietly forgotten.

The Cannon Guards are the (now) black-helmeted beings protecting the Cannon. To eradicate any ideas about stealing the Cannon, they are trained to kill at the slightest provocation. Four members of the Guard are



Cannon Guards, making sure that the Cannon actually fired, and doing the actual firing. In addition to this he would have sole knowledge of the location of the Cannon when it was not in use.

As a matter of protocol, the Cannon is fired by a cigarette butt, after a convenient number of verses of Godiva. For the firing, black powder had conventionally been used, with finely divided asbestos as wadding. This type of wadding replaced toilet paper in 1964 after the injury to the nurse. Recently, wolastinite has re-

placed asbestos as the wadding material. chained to the Cannon and four unchained guards keep the surrounding area clear.

Barry Levine, 8T4  
October, 1984

with additions by John Howlett  
Adapted from a history by  
Michael J. Brunka, Toike Oike,  
January 1975



Calendar '86-'87

SHINERĀMĀ





# SEPTEMBER<sup>86</sup>

... the month when school (Skulem?) starts... yuchhh!

Sun Mon Tues Wed Thurs Fri Sat

0 1 2 3 4 5 6

Compliments of EngSoc,  
an extra day of  
summer partying!

Labour Day

ORIENTATION  
*Watch Out!*

ORIENTATION  
4:30 in arena

CLASSES & LADS BEGIN  
— *let Moe* ORIENTATION  
4:30 in arena (Petra)

MEN'S  
FOOTBALL VS. MCGILL  
— *still Moe* ORIENTATION  
4:30 in arena (Petra)  
(at Wetmore Hall)

7 8 9 10 11 12 13

... Eng Soc.  
Executive Meeting  
First Monday of classes(!)

Women's Intramurals...  
Sign up in EAA Office

MEN'S  
FOOTBALL VS. LAURIER  
(AND NEXT WEEK...)

HART HOUSE FARM WATCH FOR GRAD PHOTOS THIS WEEK (AND NEXT WEEK...)

14 15 16 17 18 19 20

... 1st & 2nd YEAR  
ENG SOC ELECTIONS  
Keep watching for grad photos...

FULL MOON

*1st Day*  
TO ADD OR DROP  
FALL-TERM COURSES.

21 22 23 24 25 26 27

Annual General Meeting  
EngSoc Council Meeting  
5PM, GB202

Autumnal Equinox! VARSITY FUND TELETHON

COMPUTER FAIR  
8AM - 6PM, GB202

28 29 30

Varsity Fund Telethon

and Oct 1, 2





# OCTOBER

Calendar of Atlanta - self-reflection - fully meaningful

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
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	1	2	3	4		
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October 1st: Monday  
October 2nd: Tuesday  
October 3rd: Wednesday  
October 4th: Thursday  
October 5th: Friday  
October 6th: Saturday  
October 7th: Sunday

5	6	7	8	9	10	11
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October 12th: Monday  
October 13th: Tuesday  
October 14th: Wednesday  
October 15th: Thursday  
October 16th: Friday  
October 17th: Saturday  
October 18th: Sunday

12	13	14	15	16	17	18
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October 19th: Monday  
October 20th: Tuesday  
October 21st: Wednesday  
October 22nd: Thursday  
October 23rd: Friday  
October 24th: Saturday  
October 25th: Sunday

19	20	21	22	23	24	25
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October 26th: Monday  
October 27th: Tuesday  
October 28th: Wednesday  
October 29th: Thursday  
October 30th: Friday  
October 31st: Saturday

26	27	28	29	30	31	
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October 31st: Sunday  
November 1st: Monday  
November 2nd: Tuesday  
November 3rd: Wednesday  
November 4th: Thursday  
November 5th: Friday  
November 6th: Saturday  
November 7th: Sunday





# NOVEMBER

it's getting cold out! - bundle up & drink lots of beer!

Sat

Fri

Thurs

Wed

Tues

Mon

Sun

1

2 3 4 5 6 7 8

Last Day to Withdraw From  
Fall Term Without Penalty  
Men's Hockey vs Waterloo  
Women's Basketball - Toronto  
(cont'd on Sunday)

Quiet week coming up!

9 10 11 12 13 14 15

Eng Soc Council Meeting  
Spur 16/2 16  
RESISTANCE DAY

Men's Basketball - National  
Invitational Tournament

Women's  
Basketball vs Waterloo

16 17 18 19 20 21 22

Women's  
Volleyball vs Laurier

Men's Hockey vs Guelph

23 24 25 26 27 28 29

Women's  
Basketball vs McMaster  
Men's Hockey vs Brock  
Women's Faculty  
Council Meeting

Two days in one!

30

Birds of Prey





# DECEMBER

one inch wide at the top and one inch high at the bottom

Sun Mon Tues Wed Thurs Fri Sat

1 2 3 4 5 6

When locks is in the air  
and 505 is in the air

7 8 9 10 11 12 13

gram

14 15 16 17 18 19 20

gram

21 22 23 24 25 26 27

28 29 30 31

gram



When locks is in the air  
and 505 is in the air





# JANUARY

the month of new beginnings

Sun

Mon

Tues

Wed

Thurs

Fri

Sat

3

2

1



New Year's Day

Hanukkah Ends

10

9

8

Men's Hockey vs. AMC  
Women's Volleyball  
High School Invitational

On-boy... classes  
& Labs start again

Eng Soc Exec Meeting  
Orthodox Critiques

Epiphany

Hangover Ends

17

16

15

Last Day  
To ADD OR DROP  
SPRING-TERM COURSES  
Men's & Women's  
Basketball vs. York

Wish Out  
to the AIR LIST  
Godiva's Resurrection

Julian New Year's - Men's Hockey vs. Western

24

23

22

Men's  
Hockey vs. Laurentian

Eng Soc Council Meeting  
Spirituals

Orthodox Epiphany

31

30

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Men's & Women's  
Basketball vs. Queens

FLAME

ELM FLAME BURGER





# FEBRUARY

Sun Mon Tues Wed Thurs Fri Sat

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General Assembly

Supreme Court Meeting

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

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Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

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Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

Women's Volleyball vs. Men's Hockey

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# MARCH

For month M, English on Thursday, let's get English right!

Sun Mon Tues Wed Thurs Fri Sat

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• Canlon Election Issue  
• EngSoc 87-88 Exec  
Election Campaign

Ash Wednesday  
• EngSoc Exec Meeting  
• SIKULE NIGHT!  
at Hart House Theatre

EngSoc Elections ON

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• 2nd + 3rd Year Elections

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Joint  
EngSoc  
Council Meeting  
5 PM, G202  
St Patrick's Day



Committee  
chair(women Election)

PURIM

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Quiet week - last chance to procrastinate before finals - sleep bad party harder!

Vernal Equinox



ENGINEERING

REPRINTS

ALL EXAMS PUBLISHED

STATICS  
AND  
DYNAMICS

HELP

HAWAII

HITLER

Caribbean  
cruises

HAWAIIAN



APRIL - 1995

Sun Mon Tues Wed Thurs Fri Sat

1 2 3 4

APRIL (union/NAAC)  
FOOL'S DAY

5 6 7 8 9 10 11

CLASSED LAYS END

12 13 14 15 16 17 18

APRIL EXHIBITS  
on Grand Friday - see Arlington Directory

19 20 21 22 23 24 25

May

26 27 28 29 30 May 1

May 1st (Good Friday) - see Arlington Directory



# MAY

S M T W T F S

1 2 T

3 4 5 6 7 8 9 W

10 11 12 13 14 15 16 T

Mother's Day

17 18 19 20 21 22 23 W

Long Beach Victoria Day

24 25 26 27 28 29 30 T

Faculty Council Mtg.

31

# JULY

S M T W T F S

1 2 3 4 W

Canada Day

5 6 7 8 9 10 11 T

12 13 14 15 16 17 18 W

19 20 21 22 23 24 25 T

26 27 28 29 30 31 T

# JUNE

S M T W T F S

1 2 3 4 5 6 W

7 8 9 10 11 12 13 T

14 15 16 17 18 19 20 W

21 22 23 24 25 26 27 T

Summer Solstice

St. Jean-Baptiste

28 29 30

Portals (9:00)

# AUGUST

S M T W T F S

1

2 3 4 5 6 7 8

Civic Holiday

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30 31

## ENGINEERING FACULTY

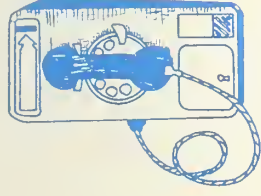
Registrar's Office \_\_\_\_\_ 978-3134  
 Engineering Society \_\_\_\_\_ 978-2917  
 EngCom \_\_\_\_\_ 978-5377  
 Stores \_\_\_\_\_ 978-2916

### DEPARTMENTS:

Chemical \_\_\_\_\_ 978-3063  
 Civil \_\_\_\_\_ 978-3098  
 Electrical \_\_\_\_\_ 978-3123  
 Engineering Science (NV) \_\_\_\_\_ 978-2903  
 Geological \_\_\_\_\_ 978-6554  
 Industrial \_\_\_\_\_ 978-6421  
 Mechanical \_\_\_\_\_ 978-3040  
 MMS \_\_\_\_\_ 978-6163

## HEALTH & RECREATION

Athletic Centre \_\_\_\_\_ 978-3437  
 court reservations \_\_\_\_\_ 978-4116  
 Hart House \_\_\_\_\_ 978-2452  
 locker office (coats & rentals) \_\_\_\_\_ 978-4747  
 Health Services \_\_\_\_\_ 586-8030  
 Varsity Stadium \_\_\_\_\_ 979-2430



## LIBRARIES, BOOKSTORE

University Bookroom \_\_\_\_\_ 586-7918  
 Chemistry Library \_\_\_\_\_ 978-3587  
 Computer Library \_\_\_\_\_ 978-2987  
 Engineering Library \_\_\_\_\_ 978-6494  
 Roberts Library \_\_\_\_\_ 978-2294  
 Sigmund Samuel Library \_\_\_\_\_ 978-2280  
 Science & Medicine Library \_\_\_\_\_ 978-2284

## SERVICES

Career Placement Centre \_\_\_\_\_ 586-8000  
 Counseling & Learning Skills \_\_\_\_\_ 586-7970  
 Fees Department \_\_\_\_\_ 978-2142  
 Housing Services \_\_\_\_\_ 586-8045  
 Legal Services \_\_\_\_\_ 978-6497  
 Ombudsman \_\_\_\_\_ 978-4874  
 Police - Emergency \_\_\_\_\_ 978-2222  
                     - Other \_\_\_\_\_ 978-2323  
 SAC \_\_\_\_\_ 978-4911  
 Sex Education Centre \_\_\_\_\_ 978-3977  
 Student Awards Office  
     (OSAP, scholarships, bursaries) \_\_\_\_\_ 586-7950

ALL OTHER U.of T. #'s\_978-2011





## The Engineers' Hymn...

Godiva was a lady, who through Coventry did ride  
to show to all the villagers her bare and lily-white hide.  
The most observant villager, an Engineer of course,  
was the only one to notice that Godiva rode a horse.

CHORUS:

We are we are we are we are we are the Engineers -  
We can we can we can we can demolish forty beers -  
Drink rum drink rum drink rum drink rum and come along with us  
For we don't give a damn for any damn man who don't give a  
damn for us!

Said she, "I've come a long long way and I will go as far  
with the man who takes me from this horse and leads me to a bar"  
The men who took her from her steed and good her to a beer  
were a blurry-eyed Surveyor and a drunken Engineer!

Godiva was a lady well-endowed there was no doubt -  
She never wore a stitch of clothes, just wound her hair about  
The first man ever to make her was an Engineer of course  
And on just one beer some Artie queer then made Godiva's horse

My father was a miner from the northern Malamute  
My mother was the mistress in a house of ill-repute.  
The last time that I saw them both, these words rang in my ears,  
"Get out of here you son-of-a-bitch and join the Engineers!"

An Artisan and an Engineer once found a gallon can,  
Said the Artisan, "Match me drink for drink, let's see if you're a man."  
They drank three drinks, the Artie fell, his face was turning green,  
But the Engineer drank on; he said, "It's only gasoline."

Venus is a statue made entirely out of stone,  
There's not a fig leaf on her, she's as naked as a bone.  
On noticing her arse was gone, an Engineer disapproved,  
"The damn thing's busted concrete and it should be reinforced!"

A maiden and an Engineer were sitting in the park,  
The Engineer was busy doing research after dark.  
His scientific method was a marvel to observe:  
While his right hand wrote the figures down, his left hand  
traced the curves.

My father peddles opium, my mother's on the dole,  
My sister used to walk the street, but now she's on parole.  
My brother runs a restaurant with bedrooms in the rear,  
But they don't even talk to me 'cause I'm an Engineer.

An Engineer once came to class so drunk and very late,  
He stumbled through the lecture hall at an ever-diminishing rate.  
The only things that held him up and kept him on his course  
were the boundary condition and the electromotive force!

Every year en masse the Engineers take to the street  
To show that Skulemen give a damn, and aid C.F.'s defeat.  
With customary gusto and teamed with a Nurse of course,  
They raise the bucks by stirring shoes with SPARKED BRUTE FORCE!

Now you've heard our story and you know we're Engineers -  
We love to love our women, and we love to drink our beers.  
We drink to every fellow who comes here from far and near  
'Cause we're a HELL-OF-A, HELL-OF-A, HELL-OF-A, HELL-OF-A,  
HELL-OF-AN-ENGINEER!

## Cannon (Skule<sup>tm</sup> Yell)

We are, we are, we are the Engineers!  
We can, we can, demolish forty beers.  
Drink rum (straight!), drink rum (straight!), and come along with us,  
For we don't give a damn for any damn man who don't give a  
damn for us!

## Blue & White (U. of T. song)

Old Toronto, mother ever dear,  
All thy sons thy very name revere -  
Yes we hail thee,  
Ne'er will fail thee  
But we shall sing thy glory with our might (for we are)  
Ever loyal, faithful, frank, and strong -  
We will sing thy praises in our song  
Aye, and hail both loud and long  
The royal Blue and White (FIGHT! FIGHT! FIGHT!)

Toronto is our University -  
Shout, Oh, Shout men of every faculty  
Velut Arbor Aevo  
May she ever thrive, oh  
God forever bless our alma mater.

CHEER:

Toronto, Toronto, Toronto Varsity!  
(We) shout (and) fight (for the) Blue (and) White  
(and the) Honour (of) U. of T.!  
Rippertee, Rappertee,  
Rippertee rappertee ree!  
Toronto, Toronto, Toronto Varsity!  
YAYYYY... TORONTO!

## Mailman

I am happy, I am gay;  
I come each and every day.  
I'm your Mailman -  
I knock your knockers, I ring your bell,  
Don't you think that I am swell?  
I'm your Mailman -  
I can come in any kind of weather:  
Don't you know my bag is made of leather?  
I don't mess with doors and locks,  
I just slip it in your box;  
I'm your Mailman.

## Two-Word Cheer

Awwwww.....SHIT!!!

## Mathies' Cheer

$e^x dy/dx$   
 $e^x dx$   
secant, tangent, cosine, sine  
3.14159  
Square root, cube root, Q.E.D.  
Slipstick, slide rule  
PPHATT, U.C.!!

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SKULE™

Sept. 1986